



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re U.S. Patent Application of

NAKAO *et al.*

Application Number: 10/020,721

Filed: December 14, 2001

For: DETECTION METHOD AND DETECTION KIT
FOR PCR-AMPLIFIED BASE SEQUENCES

Attorney Docket No. HIRA.0054

Honorable Assistant Commissioner
for Patents
Washington, D.C. 20231

Art Unit 1637

Examiner
Chunduru, Suryaprabha

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COVER LETTER

Sir:

[] The fee for submission of additional claims is calculated as shown below:

FOR	TOTAL WITH NEW CLAIMS ADDED	TOTAL CURRENTLY ON FILE	CLAIMS PAID	RATE	CALCULATION
Total Claims	6	6	(Over 20)	x \$18	
Independent Claims	2	2	(Over 3)	x \$84	
MULTIPLE DEPENDENT CLAIM(S)				+ \$280	
REDUCTION FOR FILING BY SMALL ENTITY (note 37 C.F.R. §§ 1.9, 1.27, 1.28 IF APPLICABLE, VERIFIED STATEMENT MUST BE ATTACHED)				x ½	
				TOTAL	0.00

In addition, the below-identified communications are submitted in the above-captioned application or proceeding:

[x] Amendment/Response
(with Claim Amendments)
[] Information Disclosure Statement
[] Preliminary Amendment

[] Petition for month Extension of Time
[] Terminal Disclaimer
[] Letter to Draftsperson
[] pages of drawings

☐ Substitute Specification
☐ Other _____

☐ Petition under _____

- ☐ Please charge my **Deposit Account Number** _____ in the amount of _____ to cover the fees for _____. A duplicate copy of this paper is enclosed.
- ☐ A check in the amount of \$ _____ to cover the fee is enclosed
- ☒ The Commissioner is hereby authorized to charge any additional fees associated with this communication, including patent application filing fees and processing fees under 37 C.F.R. § 1.16 and 1.17, or credit any overpayment to **Deposit Account Number 08-1480**.

Respectfully submitted,

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January 17, 2003

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RESPONSE AND AMENDMENT UNDER 37 C.F.R. §1.111

Sir:

This is in response to the office action dated October 23, 2002 and the Interview conducted on January 14, 2003, in the above identified application, to which the period for response will expire on January 23, 2003. Please amend the above identified application with the replacement paragraphs/sections/claims as follows:

IN THE CLAIMS:

Please substitute claims 1-4 with the following amended claims:

1. A method of detecting PCR-amplified base sequences, comprising the steps of:
- conducting PCR amplification by mixing a plurality of pairs of primers with a sample, said primers being suitable for amplifying different base sequences of a same length or different lengths by PCR;
 - conducting a hybridization reaction by using a substrate on which said primers used for the PCR are fixedly spotted on spots thereon and a solution containing said base sequences that are PCR-amplified in the preceding step, said hybridization reaction being performed between the primers fixedly spotted on the substrate and said PCR-amplified

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